

12-18-01

Box 1-50

**UTILITY PATENT APPLICATION TRANSMITTAL  
(Small Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
UCT-0020Total Pages in this Submission  
90**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**METHODS FOR THE METABOLIC MAINTENANCE USING CONTRANSPORTERS**

and invented by:

Robert A. Reenan  
Blanka Rogina  
Stephen L. HelfandJC675 U.S. PTO  
10/017479  
12/12/01If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 55 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☒ Cross References to Related Applications (if applicable)
  - c. ☒ Statement Regarding Federally-sponsored Research/Development (if applicable)
  - d. ☐ Reference to Microfiche Appendix (if applicable)
  - e. ☐ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (if drawings filed)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

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## Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)

a. ☒ Formal      b. ☐ Informal      Number of Sheets 22

4. ☐ Oath or Declaration

a. ☐ Newly executed (original or copy)      ☐ Unexecuted

b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)

c. ☐ With Power of Attorney      ☐ Without Power of Attorney

d. ☐ DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference (usable if Box 4b is checked)

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Computer Program in Microfiche

7. ☒ Genetic Sequence Submission (if applicable, all must be included)

a. ☒ Paper Copy

b. ☒ Computer Readable Copy

c. ☒ Statement Verifying Identical Paper and Computer Readable Copy

## Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & documents)

9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)

10. ☐ English Translation Document (if applicable)

11. ☐ Information Disclosure Statement/PTO-1449      ☐ Copies of IDS Citations

12. ☐ Preliminary Amendment

13. ☒ Acknowledgment postcard

14. ☒ Certificate of Mailing

☐ First Class      ☒ Express Mail (Specify Label No.): EL 914110561 US

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**Accompanying Application Parts (Continued)**

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☐ Small Entity Statement(s) - Specify Number of Statements Submitted: \_\_\_\_\_
17. ☐ Additional Enclosures *(please identify below)*:

**Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)**

18. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

**Warning**

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

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## Fee Calculation and Transmittal

### CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	50	- 20 =	30	x \$9.00	\$270.00
Indep. Claims	14	- 3 =	11	x \$42.00	\$462.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$370.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$1,102.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_ as filing fee.
  - ☐ Credit any overpayment.
  - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
  - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: December 12, 2001

  
Signature

Leah M. Reimer  
Registration No. 39,341  
Customer No. 23413

CC:

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**Applicant(s): **Reenan et al.**

Docket No.

**UCT-0020**

Serial No.

Filing Date

Examiner

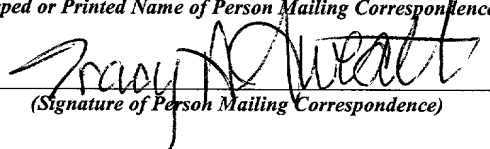
Group Art Unit

Invention: **METHODS FOR THE METABOLIC MAINTENANCE USING CONTRANSPORTERS**

I hereby certify that the following correspondence:

**Utility Patent Application Transmittal, Application, Sequence Listing, Statement Verifying Identical Paper and Computer Readable Copy, 22 sheets of Formal Drawings, and Postcard***(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on

**December 12, 2001***(Date)***Tracy A. Sweatt***(Typed or Printed Name of Person Mailing Correspondence)*  
*(Signature of Person Mailing Correspondence)***EL 914110561 US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Reenan et al. )  
 )  
For: METHODS FOR THE METABOLIC )  
MAINTENANCE USING CONTRANSPORTERS )

**GENETIC SEQUENCE SUBMISSION STATEMENT VERIFYING IDENTICAL PAPER  
AND COMPUTER READABLE COPY**

Box New Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

I hereby state each computer readable form submitted in this application is the same as the "Sequence Listing" to which it is indicated to relate.

If any there are any additional charges with respect to this Genetic Sequence Submission Statement Verifying Identical Paper and Computer Readable Copy, for Biotechnology Invention Containing Nucleotide and/or Amino Acid Sequence, please charge them to Deposit Account No. 06-1130 maintained by Applicants' attorney.

Respectfully submitted,

Reenan et al.

CANTOR COLBURN LLP  
Applicants' Attorneys

By: 

Leah M. Reimer

Registration No. 39,341

Date: December 12, 2001  
Address: 55 Griffin Road South, Bloomfield, CT 06002  
Telephone: (860) 286-2929